

1     ABSTRACT

2             This device addresses the treatment of femoral neck trauma which includes  
3     basilar, mid-cervical and sub-cap fractures. The assembly has a lag screw assembly,  
4     side plate, compression screw and cortical screw, which are implantable. A syringe  
5     adaptor instrument delivers ortho-biologic material to the fracture site through the lag  
6     screw assembly. The lag screw assembly utilizes a cannulated screw with external  
7     threads and deployable tangs to anchor into the femoral head and is implanted in  
8     such a manner as to have the lag screw threads and tangs located on the opposite  
9     side of the fracture from the side plate. The distal shaft of the lag screw interfaces  
10    with the side plate in a manner which allows axial translation only. To deliver ortho-  
11    biologic material to the fracture site, the syringe adaptor instrument is inserted into the  
12    cannulated lag screw prior to the installation of the compression screw and the  
13    material is forced through it and out exit holes located circumferentially around the lag  
14    screw between the fracture site and the deployable tangs.